Amendments to the Claims

Please cancel claims 3-39 without prejudice. Please add new claims 40-59 as shown below in the List of Claims.

List of Claims

- 1. (Original) A peptide no more than 30 amino acids in length, comprising at least 15 contiguous amino acids selected from:
 - (a) SEQ ID NO:1, wherein the tyrosine at position 7 must be present;
 - (b) SEQ ID NO:2, wherein the tyrosines at positions 2 and 6 must be present;
 - (c) SEQ ID NO:3, wherein at least one of the tyrosines at positions 3, 10, 11 or 12 must be present;
 - (d) SEQ ID NO:4, wherein at least one of the tyrosines at positions 12, 19, 20 or 21 must be present;
 - (e) SEQ ID NO:5, wherein the tyrosine at position 11 must be present; and
 - (f) SEQ ID NO:6, wherein the tyrosine at position 5 must be present.
- 2. (Original) The peptide of claim 1, wherein one or more tyrosines in said peptide are sulfated.

3-39. Cancelled

- 40. (New) The peptide of claim 1, wherein said peptide comprises at least 15 contiguous amino acids from SEQ ID NO:1, wherein the tyrosine at position 7 is present.
- 41. (New) The peptide of claim 40, wherein the tyrosine at position 7 in SEQ ID NO:1 is sulfated.
- 42. (New)The peptide of claim 1, wherein said peptide consists of the amino acid sequence of SEQ ID NO:1, and wherein the tyrosine at position 7 of SEQ ID NO:1 is sulfated.

- 43. (New) The peptide of claim 1, wherein said peptide comprises at least 15 contiguous amino acids from SEQ ID NO:2, wherein the tyrosines at positions 2 and 6 must be present.
- 44. (New) The peptide of claim 43, wherein the tyrosines at positions 2 and 6 in SEQ ID NO:2 are sulfated.
- 45. (New) The peptide of claim 1, wherein said peptide consists of the amino acid sequence of SEQ ID NO:2, and wherein the tyrosines at positions 2 and 6 of SEQ ID NO:2 are sulfated.
- 46. (New) The peptide of claim 1, wherein said peptide comprises at least 15 contiguous amino acids from SEQ ID NO:3, wherein at least one of the tyrosines at positions 3, 10, 11 or 12 must be present.
- 47. (New) The peptide of claim 46, wherein at least one of the tyrosines at positions 3, 10, 11 or 12 of SEQ ID NO:3 are sulfated
- 48. (New) The peptide of claim 1, wherein said peptide consists of the amino acid sequence of SEQ ID NO:3, and wherein at least one of the tyrosines at positions 3, 10, 11 or 12 of SEQ ID NO:3 are sulfated.
- 49. (New) The peptide of claim 1, wherein said peptide comprises at least 15 contiguous amino acids from SEQ ID NO:4, wherein at least one of the tyrosines at positions 12, 19, 20 or 21 must be present.
- 50. (New) The peptide of claim 49, wherein at least one of the tyrosines positions 12, 19, 20 or 21 of SEQ ID NO:4 are sulfated.
- 51. (New) The peptide of claim 1, wherein said peptide consists of the amino acid sequence of SEQ ID NO:4, and wherein at least one of the tyrosines at positions 12, 19, 20 or 21 of SEQ ID NO:4 are sulfated.

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- 52. (New) The peptide of claim 1, wherein said peptide comprises at least 15 contiguous amino acids from SEQ ID NO:5, wherein the tyrosine at position 11 must be present.
- 53. (New) The peptide of claim 52, wherein the tyrosine at position 11 of SEQ ID NO:5 is sulfated.
- 54. (New) The peptide of claim 1, wherein said peptide consists of the amino acid sequence of SEQ ID NO:5, and wherein the tyrosine at position 11 of SEQ ID NO:5 is sulfated.
- 55. (New) The peptide of claim 1, wherein said peptide comprises at least 15 contiguous amino acids from SEQ ID NO:6, wherein the tyrosine at position 5 must be present.
- 56. (New) The peptide of claim 55, wherein the tyrosine at position 5 of SEQ ID NO:6 is sulfated.
- 57. (New) The peptide of claim 1, wherein said peptide consists of the amino acid sequence of SEQ ID NO:6, and wherein the tyrosine at position 5 of SEQ ID NO:6 is sulfated.
- 58. (New) The peptide of any one of claims 1, 2, or 40-57, wherein said peptide reduces the uptake of an R5 HIV isolate by cultured CCR5-positive immune cells by at least 50% at a concentration of 1 μg/ml.
- 59. (Withdrawn-new) A method of preventing the binding of gp120 to CCR5, comprising contacting said gp120 with the peptide of any one of claims 1, 2, or 40-57.